



ANNOTATE BY MOUSE.  
DRAW ATTENTION BY  
**4K RESOLUTION**

# PH-SERIES

Desktop Visualizer



Quick Zoom Knob

Remote Control Drawer

- 4K UHD 3840 x 2160P Resolution
- Take Notes by Mouse
- 13M Pixels upgraded with 1/2.8" Progressive Scan
- 1 x HDMI in/out
- 1x VGA in/2x VGA out
- USB 2.0 for PC/more functions with software
- Micro SD/TF Card port



# TECHNICAL DATA

	PH-8901(2K)	PH-9901(4K)
Camera	1-CMOS 1/2.8" Progressive Scan	1-CMOS 1/2.8" Progressive Scan
Picture Per Second (as Picked Up by Camera)	60 frames (In All Resolutions)	60 frames (In All Resolutions)
Effective Pixel (=Pixels Actually Used for Image Information)	1920 x 1080	<b>4K 3840 x 2160 / 1920 x 1080</b>
Total Pixels of CMOS	13,000,000	13,000,000
Pixels Processed Per Second (=Effective Pixels x Frames Per Sec.)	124,416,000	<b>497,664,000</b>
Color Reproduction / Precision	Very Good Colors (sRGB Color Precision)	Very Good Colors (sRGB Color Precision)
Native Signal Output	1080P (1920 x 1080)	<b>4K 2160P (3840 x 2160) / 1080P (1920 x 1080)</b>
Converted Output Signals (16:9 and 4:3)	1080P (1920 x 1080) SXGA (1280 x 1024), XGA (1024 x 768)	<b>4K 2160P (3840 x 2160) / 1080P (1920 x 1080) SXGA (1280 x 1024), XGA (1024 x 768)</b>
Resolution (Measured)	1200 TV Lines	<b>1600 TV Lines</b>
Image Rotation	270°	270°
Vertical Image-frequency	60Hz	60Hz
Iris	Automatic and Manual	Automatic and Manual
White Balance Adjustment	Automatic and Manual	Automatic and Manual
Text Enhancer	Yes	Yes
Zoom / Lens	220x zoom (22x optical + 10x digital)	220x zoom (22x optical + 10x digital)
Tilt Range of Camera	180° Vertical	180° Vertical
Light Source	Long Life High Frequency LED Lighting	Long Life High Frequency LED Lighting
Special Working Surface for Transparencies	Yes	Yes
Alternative Image Display	Negative	Negative
VGA/RGB Input/Output	1 x Input & 2 x Output (15-pin D-Sub/VGA plug)	1 x Input & 2 x Output (15-pin D-Sub/VGA plug)
Audio Input/Output	1 x Input & 1 x Output (Ø3.5/F stereo)	1 x Input & 1 x Output (Ø3.5/F stereo)
HDMI Input/Output	1 x Input & 1 x Output (HDMI)	1 x Input & 1 x Output (HDMI)
USB Port (for USB Camera)	1 (USB Camera/PC)	1 (USB Camera/PC)
TF / MicroSD Card Port	-	<b>1 (Support up to 32GB)</b>
USB Port for Mouse Control	-	<b>1 (Wireless Mouse Included)</b>
Function by Mouse	-	<b>Annotation, Auto-Focus, Zoom-In, Zoom-Out, Take Photo, Video Recording, Photo/Video Playback, Split Screen, Picture in Picture, Freeze, Title, Rotate, Text, etc.</b>
Weight	3.5 kg (7.7lbs)	3.5 kg (7.7lbs)
Dimensions	Setup (450mm x 370mm x 550mm) Folding (482mm x 370mm x 114mm)	Setup (450mm x 370mm x 550mm) Folding (482mm x 370mm x 114mm)
Infrared Remote Control	Yes	Yes
Power (External Power Pack)	Multi Range 100-240V, 20W, Weight: 0.3kg (0.6lbs)	Multi Range 100-240V, 20W, Weight: 0.3kg (0.6lbs)
Warranty	3 Years	3 Years
<b>Upgrade (Optional)</b>	<b>PH-8901M</b>	-
Added Port/Function	USB Port for Mouse Control x 1 TF/MicroSD Card Port x 1	-

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